



AMENDMENT UNDER 37 C.F.R. §1.116  
U.S. Appl. No. 10/667,368

Attorney Docket No. Q75436

### **AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

#### **LISTING OF CLAIMS:**

1. (currently amended): A light-emitting element which emits light itself, comprising:

a light-emitting portion having a higher refractive index than a refractive index of air; and

a diffraction grating structure provided to a light-emitting side surface of the light-emitting portion,

wherein a minimum light-emission value is equal to or less than 50% of a maximum light-emission value when white light is emitted from said light-emitting portion,

wherein said light-emitting portion includes light-emitting materials for at least two primary colors which emit the white light among light-emitting materials for three primary colors, and

wherein a light-emission ratio of the light-emitting materials for said at least two primary colors among the light-emitting materials for the three primary colors is adjusted to make the minimum light-emission value equal to or less than 50% of the maximum light-emission value when the white light is emitted from said light-emitting portion.

2. (original): The light-emitting element according to claim 1, further comprising:



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a color-separation filter provided between said light-emitting portion and said light-emitting side surface,

wherein a minimum value of a spectral product obtained from a light-emission waveform of the white light emitted from said light-emitting portion and a spectral transmittance of said color-separation filter is equal to or less than 50% of a maximum value thereof, whereby the minimum light-emission value is equal to or less than 50% of the maximum light-emission value when the white light is emitted from said light-emitting portion.

3. (original): The light-emitting element according to claim 2, wherein a color-separation filter which has minimum transmittance of equal to or less than 50% of maximum transmittance is used for said color-separation filter.

4-5. (canceled).

6. (currently amended): The light-emitting element according to claim-41, wherein said light-emitting portion includes the light-emitting materials for said three primary colors.

7. (currently amended): The light-emitting element according to claim-41, wherein said light-emitting materials exhibit light emission by singlet exciton.

8. (original): The light-emitting element according to claim 2, wherein said light-emitting materials exhibit light emission by triplet exciton.

9. (original): The light-emitting element according to claim 1, wherein said diffraction grating structure has a pitch of a fine convex-concave structure being in a range of from 1  $\mu\text{m}$  to 4  $\mu\text{m}$ , and a depth of said fine convex-concave structure being in a range of from 0.4  $\mu\text{m}$  to 4  $\mu\text{m}$ .

10. (original): The light-emitting element according to claim 9, wherein a ratio of said depth to said pitch in said fine convex-concave structure ranges from 0.25 to 0.60.

11. (previously presented): The light-emitting element according to claim 1, wherein said light-emitting portion includes light-emitting materials for at least two primary colors emitting the white light among light-emitting materials for three primary colors.

12. (previously presented): The light-emitting element according to claim 1,  
further comprising:

a color-separation filter provided between said light-emitting portion and said light-emitting side surface,

wherein a minimum value of a spectral product obtained from a light-emission waveform of the white light emitted from said light-emitting portion and a spectral transmittance of said color-separation filter is approximately 7% of a maximum value thereof.